

DISCOVER-AQ

HSRL Data Summary

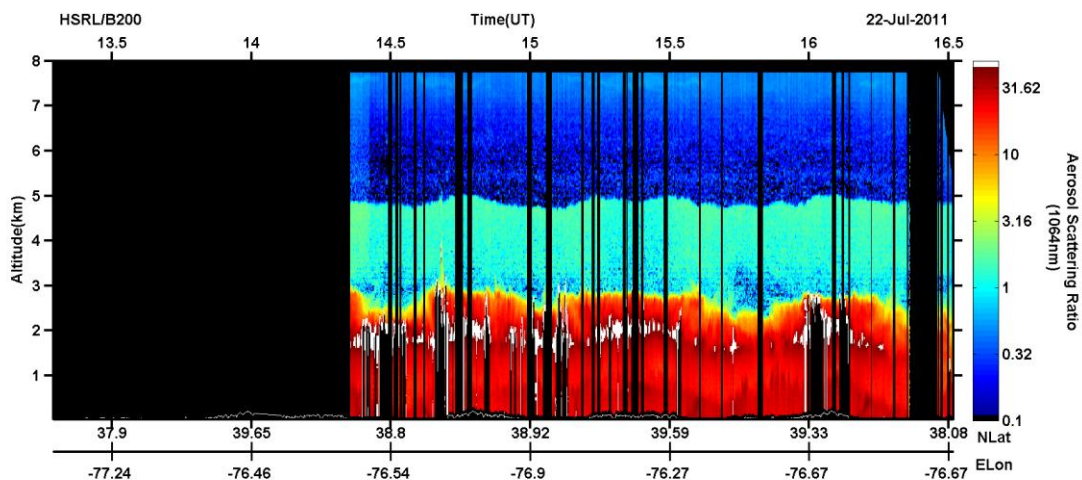
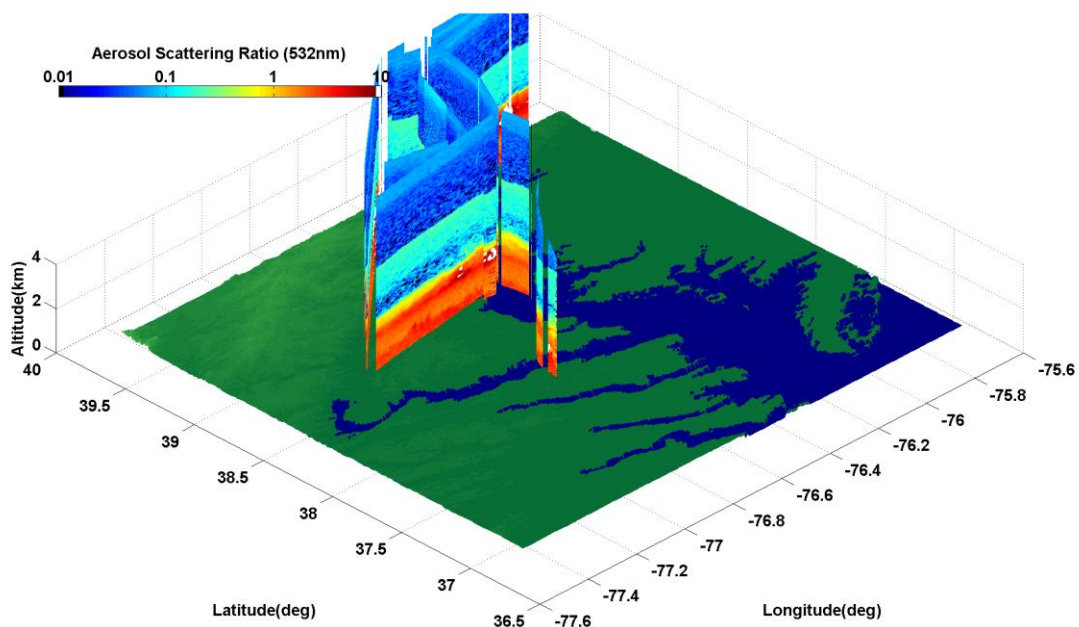
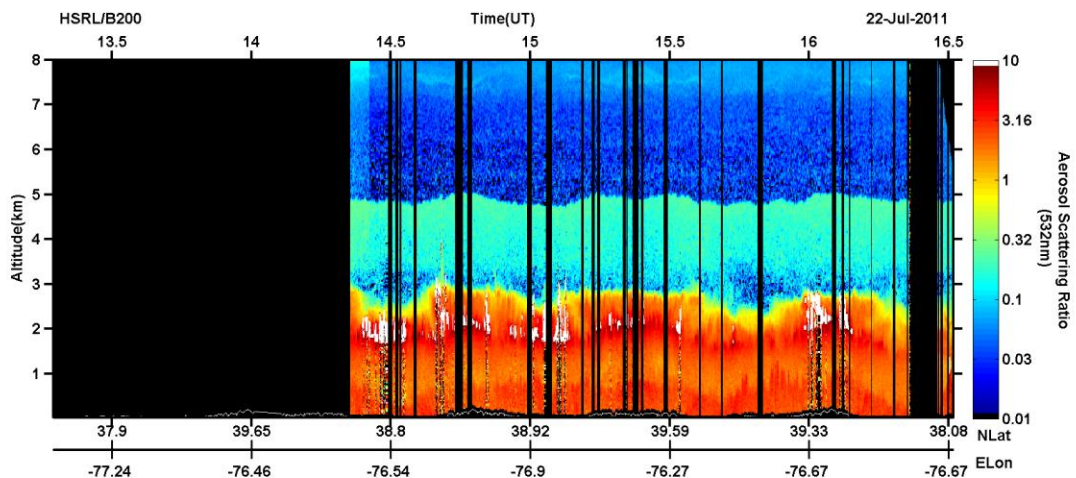
FLIGHT: Morning science flight (1 of 2)

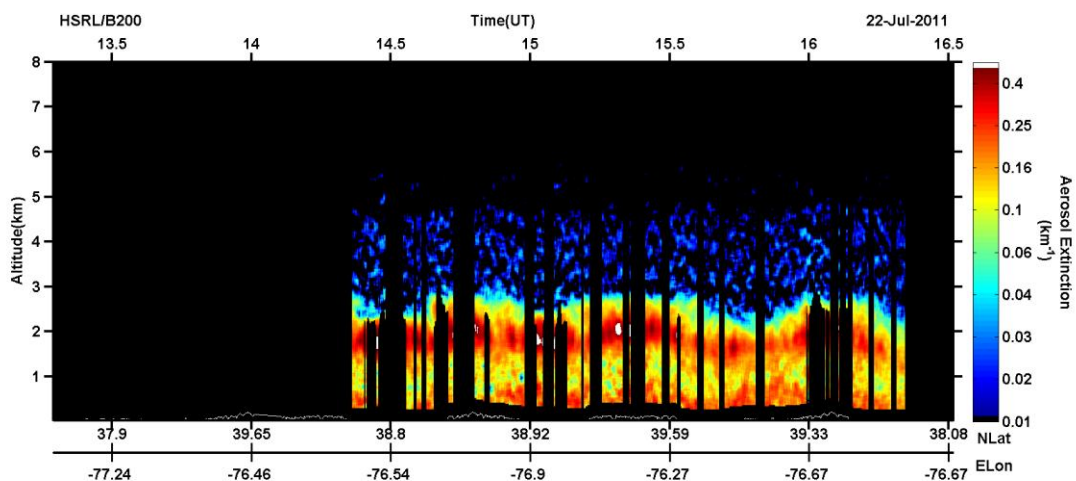
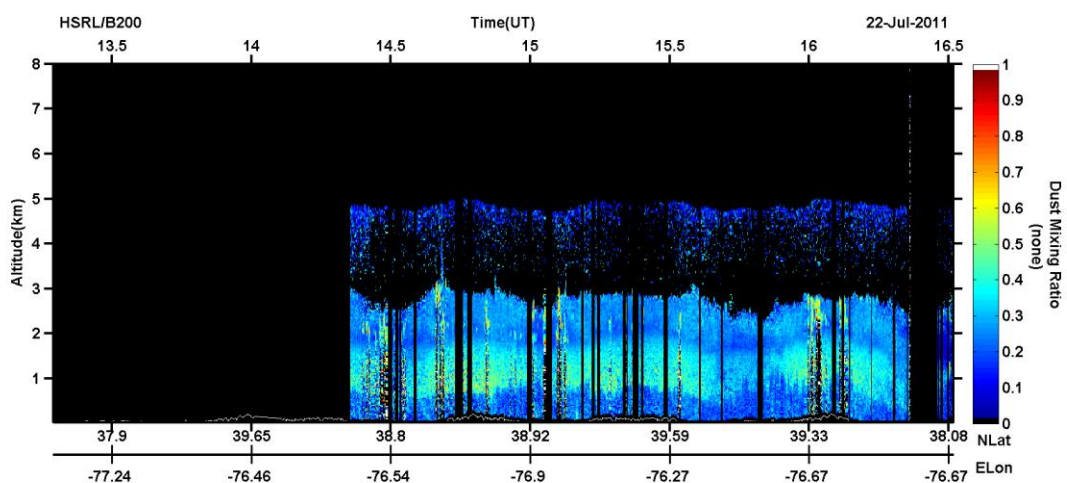
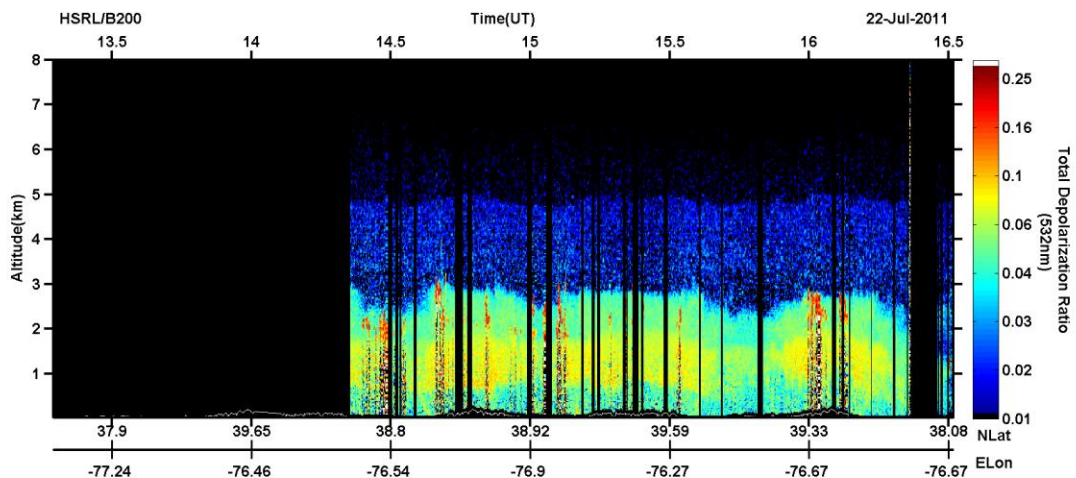
DATE: July 22, 2011

DURATION: 3.8 hours

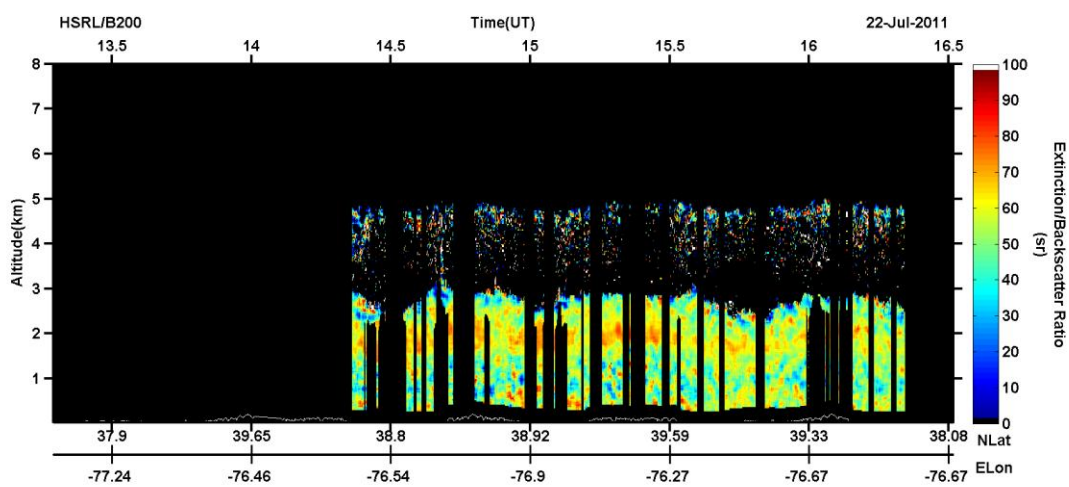
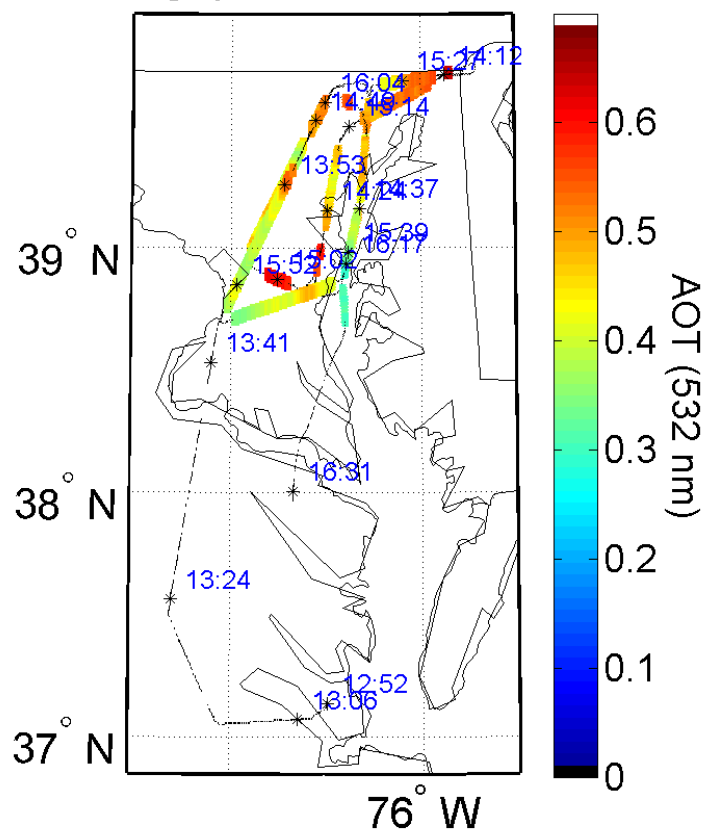
SUMMARY: Takeoff was at 9:00 AM local time from Newport News, VA. A dense aerosol layer was present with a boundary layer located at approximately 3 km altitude. A less dense layer was located above the lower layer and extended up to an altitude of about 5 km. HSRL experienced laser problems that prevented data during the beginning of the flight, after which operations were nominal.

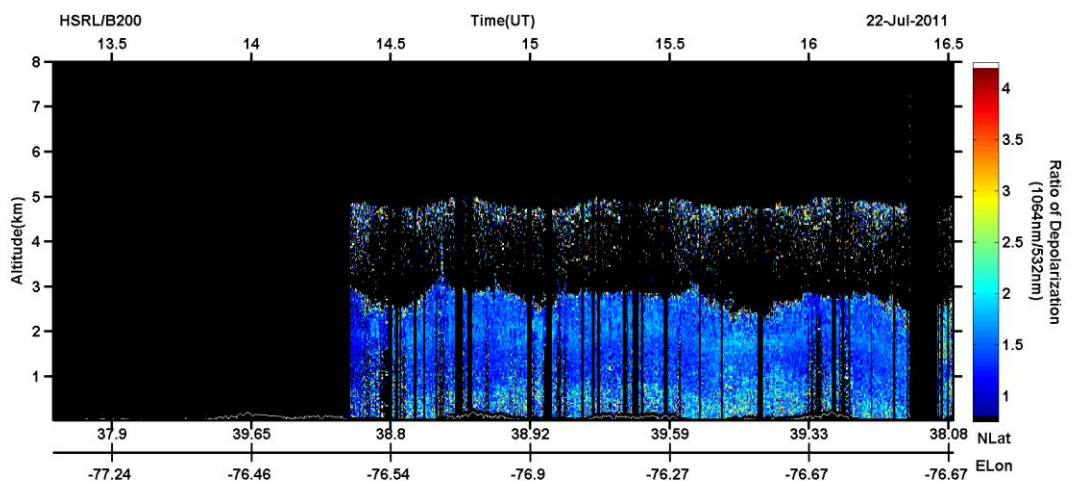
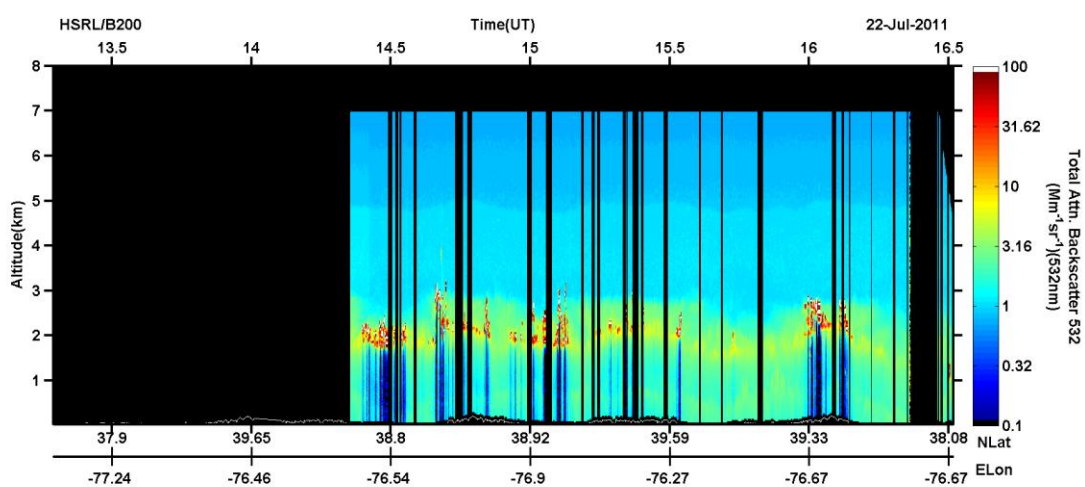
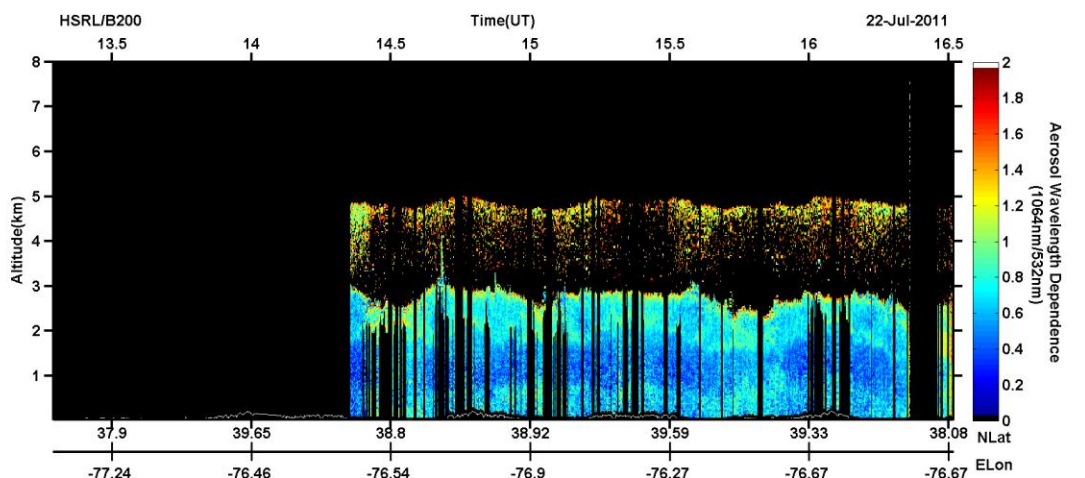
SUMMARY PLOTS:

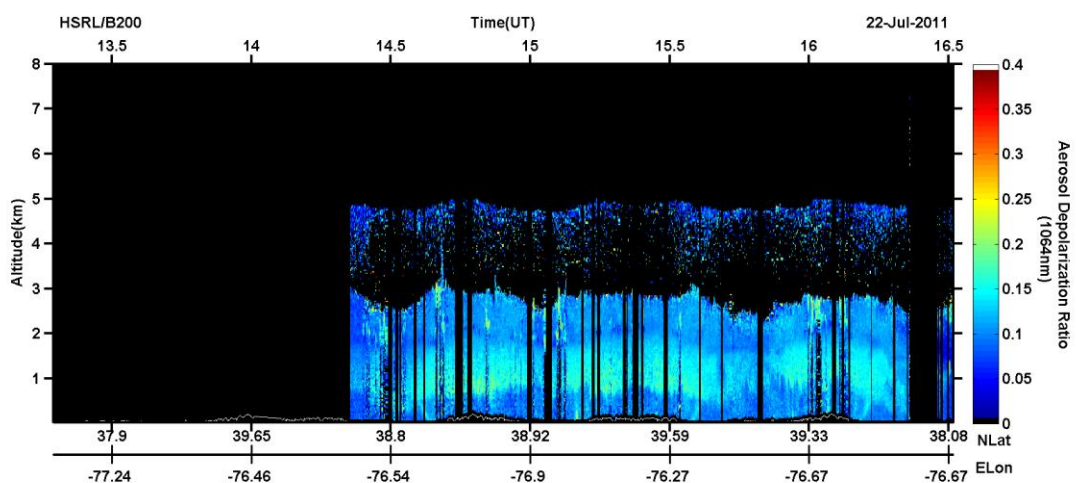
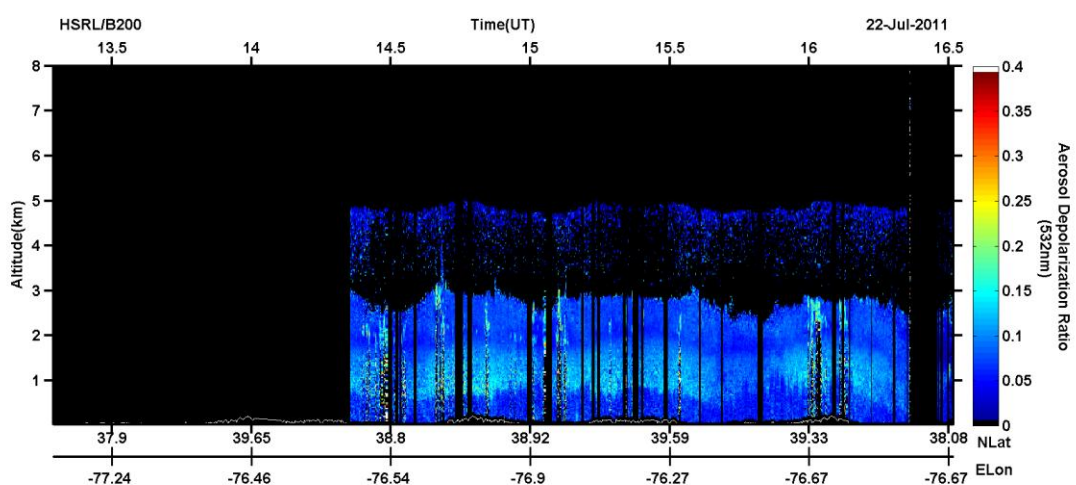
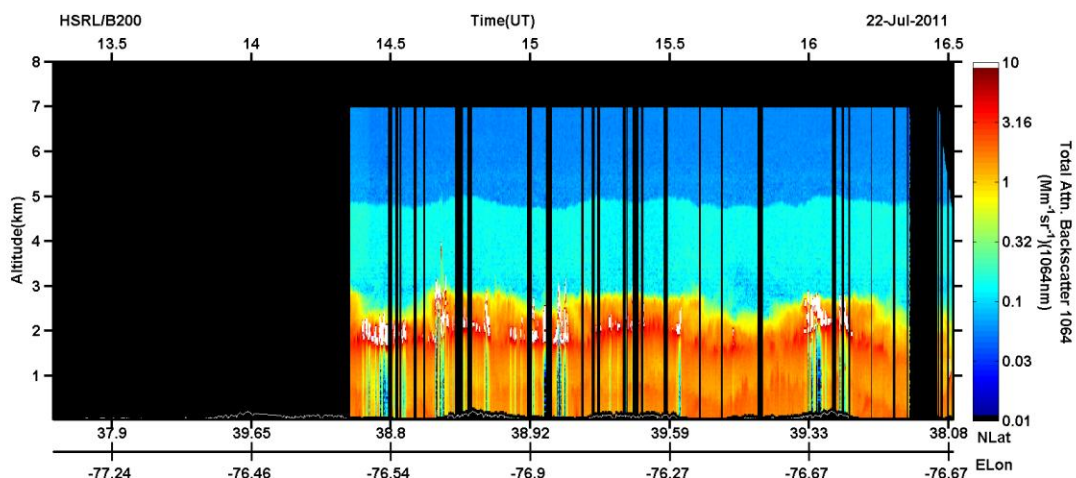


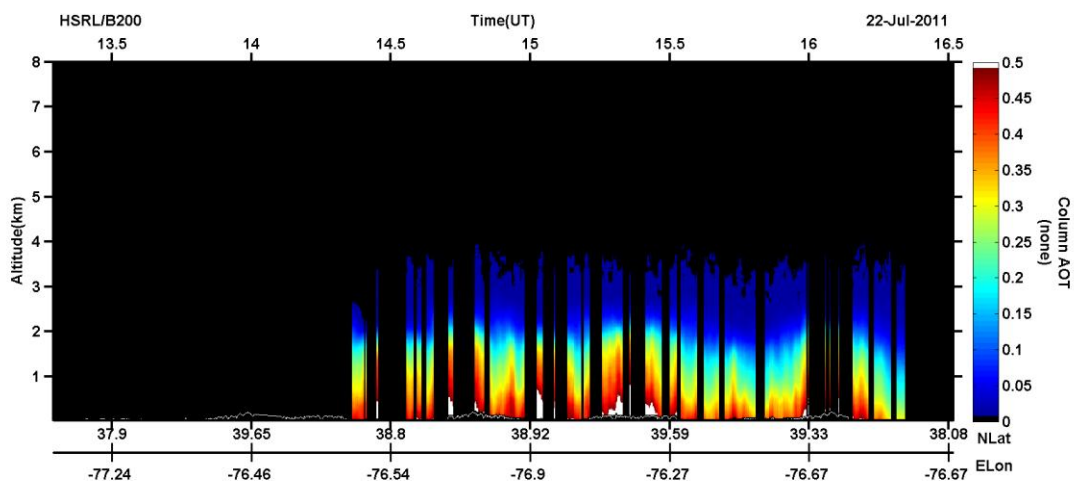
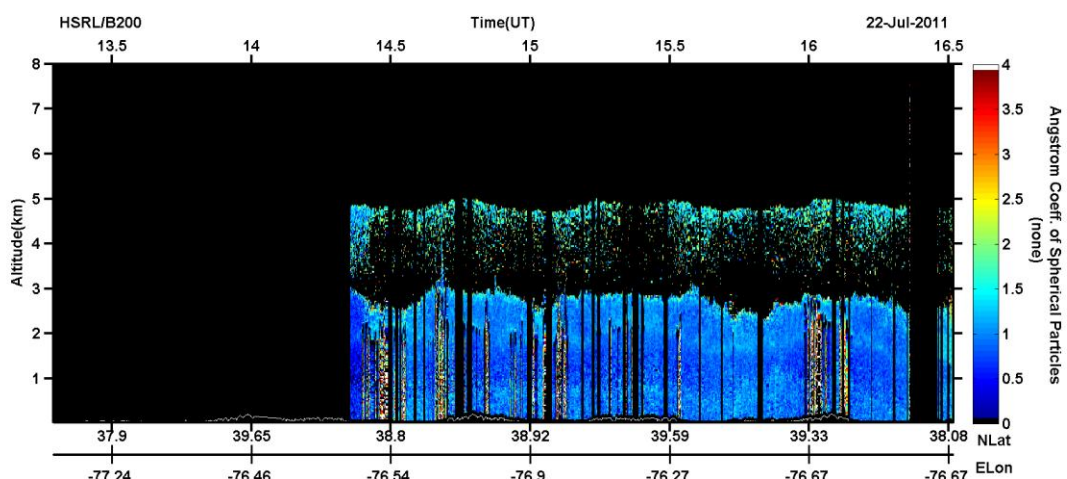
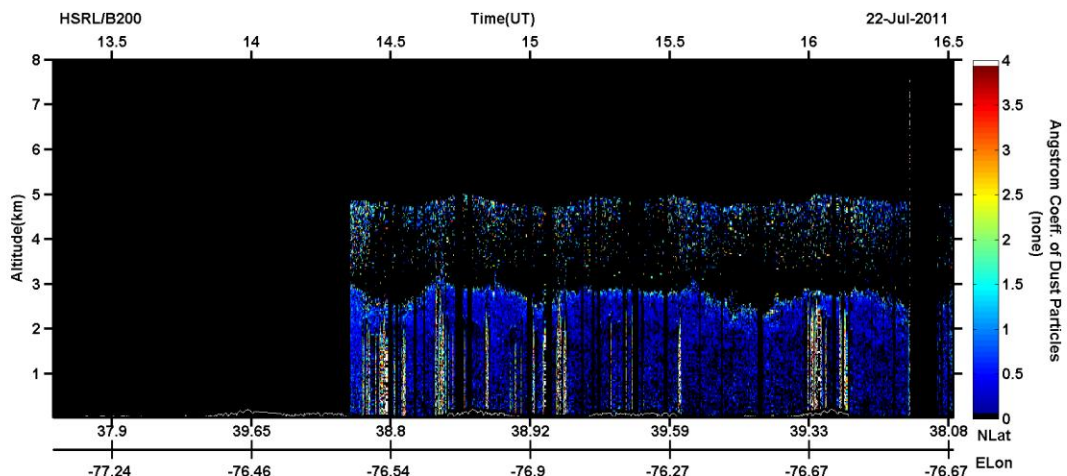


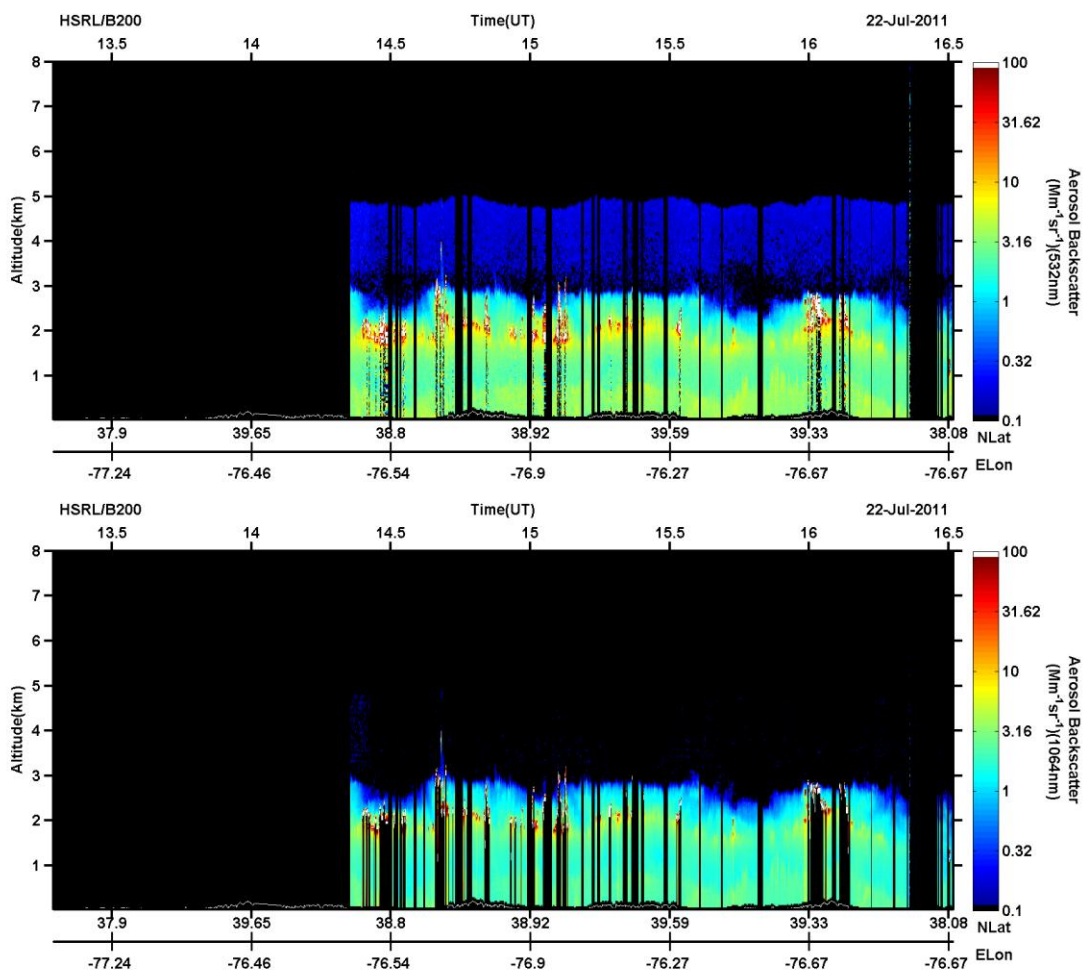
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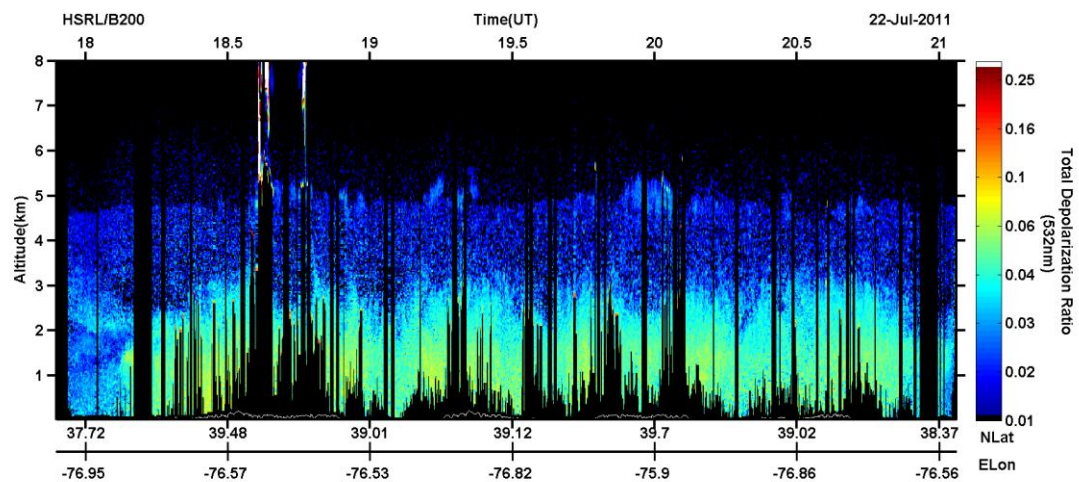
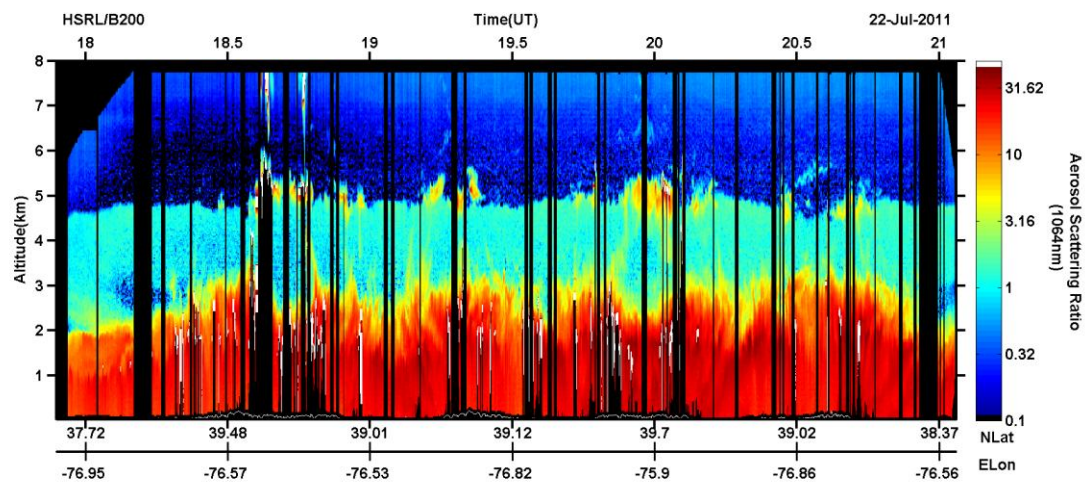
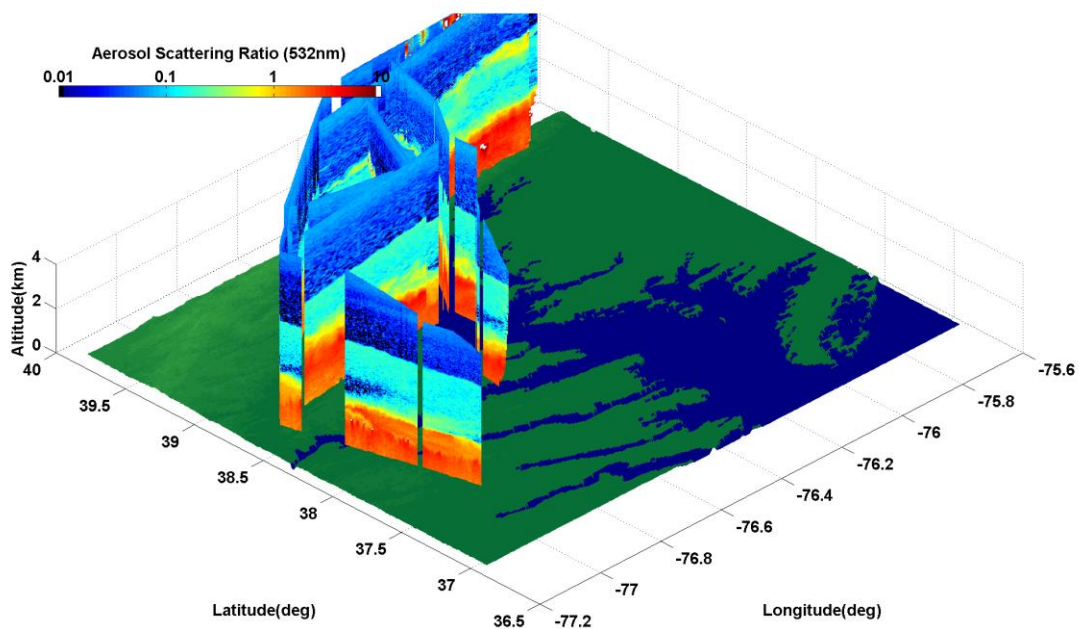
FLIGHT: Afternoon science flight (2 of 2)

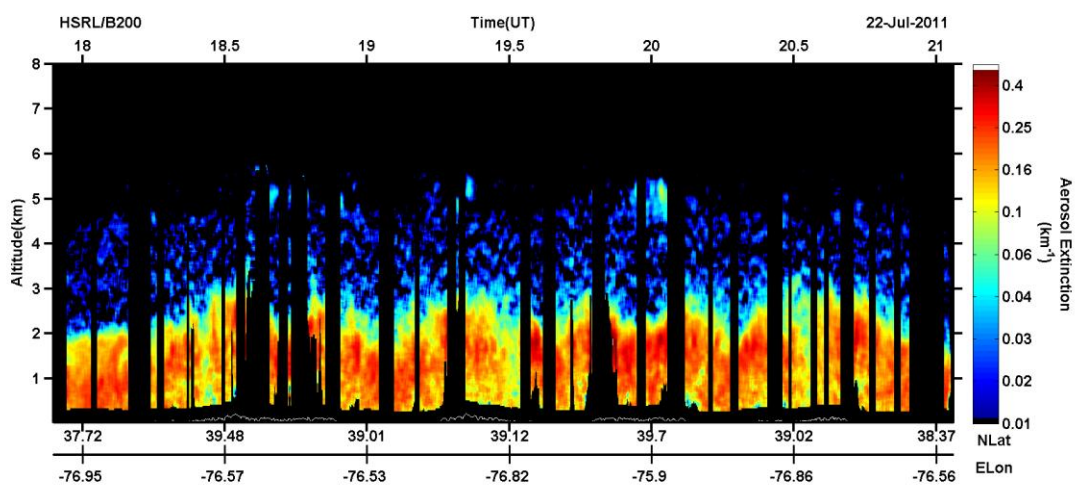
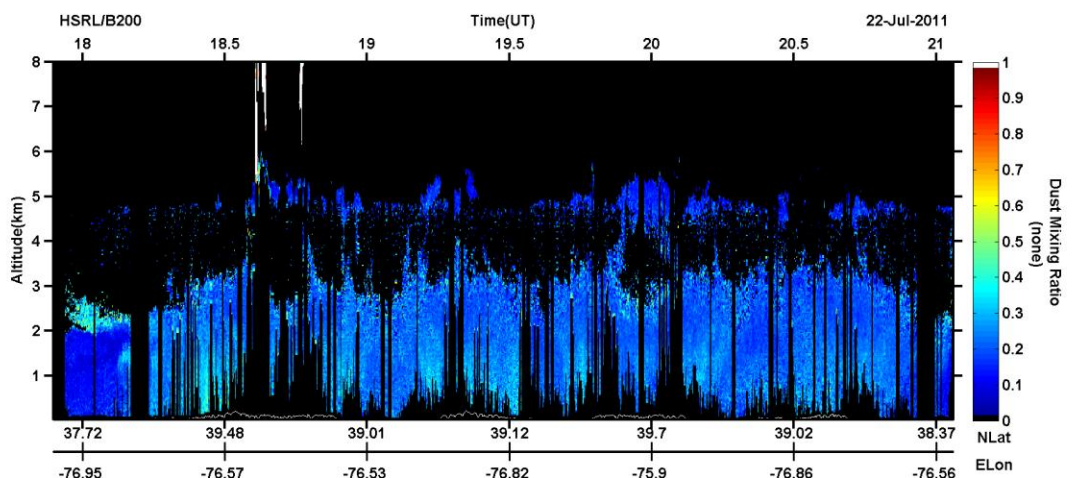
DATE: July 22, 2011

DURATION: 3.7 hours

SUMMARY: Takeoff was approximately 1:30 PM local time from Newport News, VA. The two aerosol layers present during the morning flight were still present, although the top boundary of the more dense lower layer was more variable. Total AOD was slightly less than yesterday's flights. HSRL operation was nominal.

SUMMARY PLOTS:





NASA Langley HSRL/B200 22-Jul-2011

